

PID:PT2022\_0092

Abstract:

We will observe a brown dwarf star, TVLM 513-46546, using the FAST. This will allow us to understand the spectral energy distribution of the radio pulses that repeat every 1.98 hours. This source is detectable at 4 GHz, but is yet not detected at 1.4 GHz. We propose to observe this source with the FAST to will therefore to determine whether the source has the pulsed emission at 1050-1450 MHz. We will also continue the long-term monitoring of this source, and improve the timing ephemerides.